

WHAT IS CLAIMED IS:

1. A liquid crystal display (LCD) device, comprising:
first and second substrates, the first and second substrates having a plurality of pixels divided into at least two domains;
a liquid crystal layer between the first and the second substrates, the liquid crystal layer having a different alignment direction in each domain; and
first and second compensation films on outer surfaces of the first and second substrates, respectively, the first and second compensation films having a negative refractive anisotropy and each having a cross section having a triangle pattern.
2. The device of claim 1, wherein the triangle pattern includes an isosceles triangle.
3. The device of claim 1, wherein the first and second compensation films include a discotic liquid crystal.
4. The device of claim 3, wherein the discotic liquid crystal has a tilt angle corresponding to an angle between a side and the base of the triangle pattern.
5. The device of claim 4, wherein the liquid crystal layer includes TN (twisted nematic) mode liquid crystal molecules, and the discotic liquid crystal has a tilt angle between about $\pm 0^\circ$ (degree) and about $\pm 15^\circ$ (degree).
6. The device of claim 1, wherein the pixel has two domains and a vertex of the triangle pattern corresponds to a boundary between the two domains.

7. The device of claim 1, wherein the first substrate includes:

gate and data lines crossing each other;
a thin film transistor at a crossing portion of the gate and data lines;
a pixel electrode connected to the thin film transistor;
an auxiliary electrode substantially surrounding the pixel electrode; and
a first alignment layer covering the pixel electrode.

8. The device of claim 1, wherein the second substrate includes:

a common electrode;
a protrusion on the common electrode at a boundary between the two domains; and
an alignment layer covering the common electrode and the protrusion.

9. The device of claim 1, further comprising:

a common electrode on the second substrate;
a pixel electrode on the first substrate, the pixel electrode having a slit therein; and
protrusions on the common electrode corresponding to edges of the pixel electrode on the first substrate.

10. The device of claim 9, wherein the slit corresponds to a boundary between the two domains.

11. The device of claim 6, wherein the second substrate includes:

a common electrode;
a protrusion on the common electrode at a boundary between the two domains; and

a second alignment layer covering the common electrode and the protrusion.

12. A method for manufacturing a viewing angle compensation film for a liquid crystal display (LCD) device, comprising:

forming a compensation film material having a negative refractive anisotropy;

forming a patterned mask on the compensation film material, the patterned mask having a plurality of triangle patterns; and

forming a plurality of triangle patterns on the compensation film material by pressing the compensation film material against the patterned mask.

13. The method of claim 12, wherein the triangle pattern includes an isosceles triangle.

14. The method of claim 12, wherein the patterned mask includes a metal.

15. The method of claim 12, wherein the compensation film material is formed of a discotic liquid crystal.

16. The method of claim 15, wherein the discotic liquid crystal has a tilt angle corresponding to an angle between a side and a base of the triangle pattern.

17. The method of claim 15, wherein the discotic liquid crystal has a tilt angle between about $\pm 0^\circ$ (degree) and about $\pm 15^\circ$ (degree).

18. The method of claim 12, wherein the plurality of triangle patterns is formed in the patterned mask and the patterned mask is disposed on the surface of the compensation film material facing a vertex of the triangle pattern.

19. A liquid crystal display (LCD) device, comprising:

first and second substrates, the first and second substrates having a plurality of pixels divided into at least two domains;

a liquid crystal layer between the first and the second substrates, the liquid crystal layer having a different alignment direction in each domain;

a first compensation film on an outer surface of the first substrate, the first compensation film having an upper surface and a lower surface; and

a second compensation film on an outer surface of the second substrate, the second compensation film having an upper surface and a lower surface, the first and second compensation films having a negative refractive anisotropy;

wherein at least one of the first compensation film upper surface and lower surface and at least one of the second compensation film upper surface and lower surface has a triangular cross section.

20. The liquid crystal display device of claim 19, wherein the first compensation film upper surface and the second compensation film upper surface have triangular cross sections.

21. The liquid crystal display device of claim 19, wherein the first compensation film upper surface and first compensation film lower surface have triangular cross sections and the second compensation film upper surface and second compensation film lower surface have triangular cross sections.

22. The liquid crystal display device of claim 19, wherein a width of the first compensation film does not vary

23. The liquid crystal display device of claim 19, wherein a tilt angle of the discotic liquid crystal is parallel to a surface of the compensation film.

24. The liquid crystal display device of claim 19, wherein a width of the first compensation film does vary.